

Serial No. 10/023,099

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of	: Frank Himmelsbach et al) Docket No.:	5/1310
Serial No.	: 10/023,099) Art Unit:	1624
Filed	: December 17, 2001) Examiner:	Truong, Tamthom Ngo
For	: Quinazoline Derivatives and Pharmaceutical Compositions Containing Them) Confirmation No.:	2352

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AMENDMENT**OFFICE OF PETITIONS**

Sir:

This Amendment is being submitted concurrently with a Petition under 37 C.F.R. §1.313(c)(2) and a Request for Continued Examination under 37 C.F.R. §1.114.

Amendments of the Claims are reflected in the listing of claims which begin on page 2 of this paper.

Remarks begin on page 13 of this paper.

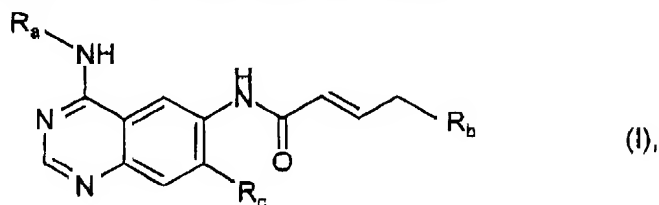
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Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (previously presented) A compound of general formula I



wherein:

R_a is a benzyl, 1-phenylethyl, or 3-chloro-4-fluorophenyl group;

R_b is a dimethylamino, *N*-methyl-*N*-ethylamino, *N*-methyl-*N*-isopropylamino, *N*-methyl-*N*-cyclopropylamino, *N*-methyl-*N*-(2-methoxyethyl)amino, *N*-ethyl-*N*-(2-methoxyethyl)amino, bis(2-methoxyethyl)amino, morpholino, *N*-methyl-*N*-(tetrahydrofuran-3-yl)amino, *N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino, *N*-methyl-*N*-(tetrahydrofuran-3-ylmethyl)amino, *N*-methyl-*N*-(tetrahydropyran-4-yl)amino, or *N*-methyl-*N*-(tetrahydropyran-4-ylmethyl)amino group; and

R_c is a cyclopropylmethoxy, cyclobutylloxy, cyclopentylloxy, tetrahydrofuran-3-yloxy, tetrahydrofuran-2-ylmethoxy, tetrahydrofuran-3-ylmethoxy, tetrahydropyran-4-yloxy, or tetrahydropyran-4-ylmethoxy group,

or a stereoisomer or physiologically acceptable salt thereof.

2. (previously presented) The compound of claim 1, with the exception of the compounds:

(1) 4-[(3-chloro-4-fluorophenyl)amino]-6-[[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino]-7-cyclopropylmethoxyquinazoline;

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- (2) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(dimethylamino)-1-oxo-2-buten-1-yl]amino}-7-cyclopropylmethoxyquinazoline;
- (3) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclobutylloxyquinazoline;
- (4) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclopentylloxyquinazoline;
- (5) 4-[(*R*)-(1-phenylethyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclobutylloxyquinazoline;
- (6) 4-[(*R*)-(1-phenylethyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclopropylmethoxyquinazoline;
- (7) 4-[(*R*)-(1-phenylethyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclopentylloxyquinazoline;
- (8) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[bis(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (9) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-ethyl-*N*-(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (10) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(tetrahydropyran-4-yl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (11) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline; and
- (12) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(tetrahydrofuran-3-yl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline,

or a stereoisomer or physiologically acceptable salt thereof.

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3. (previously presented) The compound of one of claims 1 or 2, with the exception of the compounds:

- (1) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclopropylmethoxyquinazoline;
- (2) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(dimethylamino)-1-oxo-2-buten-1-yl]amino}-7-cyclopropylmethoxyquinazoline;
- (3) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclobutyloxyquinazoline;
- (4) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclopentyloxyquinazoline;
- (5) 4-[(*R*)-(1-phenylethyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclobutyloxyquinazoline;
- (6) 4-[(*R*)-(1-phenylethyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclopropylmethoxyquinazoline;
- (7) 4-[(*R*)-(1-phenylethyl)amino]-6-{[4-(morpholin-4-yl)-1-oxo-2-buten-1-yl]amino}-7-cyclopentyloxyquinazoline;
- (8) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[bis(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (9) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-ethyl-*N*-(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (10) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(tetrahydropyran-4-yl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;

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- (11) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (12) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(tetrahydrofuran-3-yl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (13) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-(2-methoxyethyl)-*N*-methylamino]-1-oxo-2-buten-1-yl}amino)-7-cyclopropylmethoxyquinazoline;
- (14) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[bis(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclobutyloxyquinazoline;
- (15) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclobutyloxyquinazoline;
- (16) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[(*S*)-*N*-methyl-*N*-(tetrahydrofuran-3-yl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclobutyloxyquinazoline;
- (17) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[(*R*)-*N*-methyl-*N*-(tetrahydrofuran-3-yl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclobutyloxyquinazoline;
- (18) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(tetrahydropyran-4-yl)amino]-1-oxo-2-buten-1-yl}amino)-7-cyclobutyloxyquinazoline;
- (19) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[(*R*)-*N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino]-1-oxo-2-buten-1-yl}-amino)-7-cyclobutyloxyquinazoline;
- (20) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[(*S*)-*N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino]-1-oxo-2-buten-1-yl}-amino)-7-cyclobutyloxyquinazoline;
- (21) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-(tetrahydrofuran-3-yloxy)quinazoline;

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(22) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-(tetrahydropyran-4-yloxy)quinazoline;

(23) 4-[(3-chloro-4-fluorophenyl)amino]-6-({4-[*N*-methyl-*N*-(2-methoxyethyl)amino]-1-oxo-2-buten-1-yl}amino)-7-(tetrahydrofuran-2-ylmethoxy)quinazoline; and

(24) 4-[(3-chloro-4-fluorophenyl)amino]-6-{[4-(*N*-cyclopropyl-*N*-methylamino)-1-oxo-2-buten-1-yl]amino}-7-cyclopropylmethoxyquinazoline,

or a stereoisomer or physiologically acceptable salt thereof.

4. (previously presented) The compound of general formula I according to claim 1, wherein:

R_a is a 1-phenylethyl or 3-chloro-4-fluorophenyl group;

R_b is a dimethylamino, *N*-methyl-*N*-ethylamino, *N*-methyl-*N*-isopropylamino, *N*-methyl-*N*-cyclopropylamino, *N*-methyl-*N*-(2-methoxyethyl)amino, *N*-ethyl-*N*-(2-methoxyethyl)amino, bis(2-methoxyethyl)amino, morpholino, *N*-methyl-*N*-(tetrahydrofuran-3-yl)amino, *N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino, *N*-methyl-*N*-(tetrahydrofuran-3-ylmethyl)amino, *N*-methyl-*N*-(tetrahydropyran-4-yl)amino, or *N*-methyl-*N*-(tetrahydropyran-4-ylmethyl)amino group; and

R_c is a cyclopropylmethoxy, cyclobutylloxy, cyclopentylloxy, tetrahydrofuran-3-yloxy, tetrahydrofuran-2-ylmethoxy, tetrahydrofuran-3-ylmethoxy, tetrahydropyran-4-yloxy, or tetrahydropyran-4-ylmethoxy group,

or a stereoisomer or physiologically acceptable salt thereof.

5. (previously presented) The compound of general formula I according to claim 2, wherein:

R_a is a 1-phenylethyl or 3-chloro-4-fluorophenyl group;

R_b is a dimethylamino, *N*-methyl-*N*-ethylamino, *N*-methyl-*N*-isopropylamino, *N*-methyl-*N*-cyclopropylamino, *N*-methyl-*N*-(2-methoxyethyl)amino, *N*-ethyl-*N*-(2-methoxyethyl)amino,

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bis(2-methoxyethyl)amino, morpholino, *N*-methyl-*N*-(tetrahydrofuran-3-yl)amino, *N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino, *N*-methyl-*N*-(tetrahydrofuran-3-ylmethyl)amino, *N*-methyl-*N*-(tetrahydropyran-4-yl)amino, or *N*-methyl-*N*-(tetrahydropyran-4-ylmethyl)amino group; and

R_c is a cyclopropylmethoxy, cyclobutyloxy, cyclopentyloxy, tetrahydrofuran-3-yloxy, tetrahydrofuran-2-ylmethoxy, tetrahydrofuran-3-ylmethoxy, tetrahydropyran-4-yloxy, or tetrahydropyran-4-ylmethoxy group,

or a stereoisomer or physiologically acceptable salt thereof.

6. (previously presented) The compound of general formula I according to claim 3, wherein:

R_a is a 1-phenylethyl or 3-chloro-4-fluorophenyl group;

R_b is a dimethylamino, *N*-methyl-*N*-ethylamino, *N*-methyl-*N*-isopropylamino, *N*-methyl-*N*-cyclopropylamino, *N*-methyl-*N*-(2-methoxyethyl)amino, *N*-ethyl-*N*-(2-methoxyethyl)amino, bis(2-methoxyethyl)amino, morpholino, *N*-methyl-*N*-(tetrahydrofuran-3-yl)amino, *N*-methyl-*N*-(tetrahydrofuran-2-ylmethyl)amino, *N*-methyl-*N*-(tetrahydrofuran-3-ylmethyl)amino, *N*-methyl-*N*-(tetrahydropyran-4-yl)amino, or *N*-methyl-*N*-(tetrahydropyran-4-ylmethyl)amino group; and

R_c is a cyclopropylmethoxy, cyclobutyloxy, cyclopentyloxy, tetrahydrofuran-3-yloxy, tetrahydrofuran-2-ylmethoxy, tetrahydrofuran-3-ylmethoxy, tetrahydropyran-4-yloxy, or tetrahydropyran-4-ylmethoxy group,

or a stereoisomer or physiologically acceptable salt thereof.

Cancel claims 7 to 20.

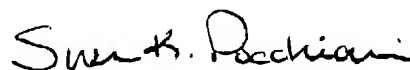
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REMARKS

Claims 7 to 20 have been canceled. Claims 1 to 6 are pending. Applicants respectfully submit that this application remains allowable for the reasons clearly set forth in the Notice of Allowance dated July 29, 2004.

If the Examiner feels that a telephone interview would be helpful in advancing prosecution of this application, the Examiner is invited to contact the attorney below.

Respectfully submitted,



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